Title (en)

Implantable pharmacological defibrillator with automatic recognition of ventricular fibrillation.

Title (de)

Pharmakologischer implantierbarer Defibrillator mit automatischer Erkennung von Herzkammer-Flimmern.

Title (fr)

Défibrillateur pharmacologique implantable à détection automatique de fibrillations ventriculaires.

Publication

EP 0429141 A2 19910529 (EN)

Application

EP 90203059 A 19901117

Priority

IT 956889 A 19891124

Abstract (en)

The invention provides an automatic implantable defibrillator with the following essential characteristics: a) a circuitry (1,2,3,6,7,8) for reliable recognition of a ventricular fibrillation state b) a paumaker (5) for trying to stop the fibrillation if it is an asystole c) if not, effecting defibrillation not by electrical pulses fed to the heart but by a bolus of medicaments (or solutions under particular physical conditions, such as a cold bolus at 30 DEG C) fed by a hydraulic system (12) into the coronary sinus or into a coronary artery by a retrograde path, to rapidly pervade the coronary circuit.

IPC 1-7

A61M 5/00; A61M 5/142; A61N 1/365; A61N 1/375; A61N 1/39

IPC 8 full level

A61M 25/00 (2006.01); **A61N 1/365** (2006.01); **A61N 1/39** (2006.01)

CPC (source: EP US)

A61M 25/0075 (2013.01 - EP US); **A61N 1/365** (2013.01 - EP US); **A61N 1/3962** (2013.01 - EP US); **A61N 1/39622** (2017.08 - EP US)

Cited by

US6416493B1; EP0815896A3; EP0617981A1; US5433731A; US6494867B1; US6464671B1; WO0066201A1; WO0066202A1

Designated contracting state (EPC)

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EP 0429141 A2 19910529; **EP 0429141 A3 19911016**; **EP 0429141 B1 19970108**; AT E147278 T1 19970115; CA 2030263 A1 19910525; CA 2030263 C 19980825; DE 69029645 D1 19970220; DE 69029645 T2 19970424; DK 0429141 T3 19970616; ES 2099083 T3 19970516; GR 3023018 T3 19970730; IT 1251509 B 19950516; IT 8909568 A0 19891124; US 5220917 A 19930622

DOCDB simple family (application)

EP 90203059 A 19901117; AT 90203059 T 19901117; CA 2030263 A 19901119; DE 69029645 T 19901117; DK 90203059 T 19901117; ES 90203059 T 19901117; GR 970400690 T 19970402; IT 956889 A 19891124; US 61429190 A 19901116